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10/623,774

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Han Seop Ryu

LT-0040

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EXAMINER

CHIO, TAT CHI

ART UNIT

PAPER NUMBER

2621

MAIL DATE

DELIVERY MODE

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PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

### Application No.

10/623,774

### Applicant(s)

RYU, HAN SEOP

### Examiner

Tat Chi Chio

### Art Unit

2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on amendment filed on 7/19/2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-13 and 18-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-13 and 18-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_

- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Response to Arguments***

1. Applicant's arguments filed 7/19/2007 have been fully considered but they are not persuasive.

In response to Applicant's argument that Kim patent does not disclose the features added by amendment to claim 1 including storing the playback times themselves with management information in the predetermined area of the disc, Kim teaches "the navigator searches the PGCIs of the plurality of files of the present title from the reproduced signal data output from the VBR buffer, since the above various reproduction time code data are recorded in the PGCIs" and since the reproduction time codes are considered to be the playback times, therefore, Kim teaches "the playback times for each of said titles are included with management information stored in a predetermined area of the disc."

2. Applicant's arguments with respect to claims 1-13 and 18-20 have been considered but are moot in view of the new ground(s) of rejection.

### ***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-13 and 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hashimoto (US 2002/0024893 A1) in view of Kim (US 6,343,180 B1).

**Consider claim 1**, Hashimoto teaches a method for reproducing an optical disc having a plurality of titles (VTS#1, VTS#2 ... VTS#99 of Fig. 2), comprising: selecting and reproducing any one of said titles of said optical disc with reference to the detected title playback times ([0107]), but Hashimoto fails to explicitly teach detecting respective playback times of said titles of said optical disc.

Kim teaches detecting respective playback times of said titles of said optical disc, wherein the playback times for each of said titles are included with management information stored in a predetermined area of the disc (col. 7, lines 28-67 and col. 8, lines 1-3, the reproduction time codes are also considered to be the playback times and they are recorded in the PGCIs). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the step of detecting respective playback times of said titles of said optical disc because the user maybe able to acquire the performed time and/or the remaining time of the present title (col. 3, lines 23-26).

**Consider claim 2**, Hashimoto teaches the method, wherein said steps a) and b) are performed when a user selects an instant play mode in a title menu ([0070]).

**Consider claim 3**, Hashimoto teach the method, wherein said optical disc having said plurality of titles is a digital versatile disc (DVD) ([0033]).

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**Consider claim 4**, Kim further teaches the method, wherein said step a) includes the steps of: a-1) retrieving navigation information of said optical disc (col. 7, lines 63-67 and col. 8, lines 1-3); and a-2) detecting the respective playback times of said titles on the basis of the retrieved navigation information (col. 7, lines 63-67 and col. 8, lines 1-3).

**Consider claim 5**, Kim further teaches the method, wherein said navigation information includes information about the number of said titles, information about respective start addresses of said titles and information about the respective playback times of said titles (col. 7, lines 36-67 and col. 8, lines 1-10).

**Consider claim 6**, Kim further teaches the method, wherein: said titles each include video data stored separately in predetermined units (video data is stored in separate VOBUs, Fig. 4); said navigation information further includes information about playback orders of said video data (VTS\_PGCI of Fig. 4) and information about playback times of said video data together (cell reproduction time and reproduction time of vobu of Fig. 4); and said playback time of each of said titles is detected as the sum of said playback times of said video data (Fig. 9B).

**Consider claim 7**, Hashimoto teaches the method, wherein said step b) comprises the step of selecting and reproducing a title with a longest one of the detected title playback times among said titles (Fig. 18).

**Consider claim 8**, Hashimoto and Kim teach a method for reproducing an optical disc having a plurality of titles (VTS#1, VTS#2 ... VTS#99 of Fig. 2 of Hashimoto), comprising: a) receiving a user's request to perform an all disc successive

play operation with respect to a plurality of discs loaded in an optical disc apparatus ([0007] of Hashimoto); b) identifying a type of a specific disc to be currently reproduced among said plurality of discs (S5 of Fig. 12) of Hashimoto; c) if the identified disc type corresponds to said optical disc having a plurality of titles (S7 of Fig. 12) of Hashimoto, detecting respective playback times of a plurality of titles of said specific disc, wherein the playback times for each of said titles are included with management information stored in a predetermined area of the disc (col. 7, lines 28-67 and col. 8, lines 1-3 of Kim, the reproduction time codes are also considered to be the playback times and they are recorded in the PGCIs); and d) selecting and reproducing any one of said titles of said specific disc with reference to the detected title playback times ([0107] of Hashimoto).

**Consider claim 9**, Hashimoto teaches the method, wherein said specific disc having a plurality of titles is a DVD (S7 of Fig. 12).

**Consider claim 10**, Kim teaches the method, wherein said step c) comprises the step of detecting the respective playback times of said titles of said specific disc on the basis of navigation information of said specific disc (col. 7, lines 63-67 and col. 8, lines 1-3).

**Consider claim 11**, Kim further teaches the method, wherein: said titles each include video data stored separately in predetermined units (video data is stored in separate VOBUs, Fig. 4); said navigation information includes information about playback orders of said video data (VTS\_PGCIs of Fig. 4) and information about playback times of said video data together (cell reproduction time and reproduction time

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of vobu of Fig. 4); and said playback time of each of said titles is detected as the sum of said playback times of said video data (Fig. 9B).

**Consider claim 12**, Hashimoto teaches the method, wherein said step d) comprises the step of selecting and reproducing a title with a longest one of the detected title playback times among said titles (Fig. 18).

**Consider claim 13**, Hashimoto teaches the method, further comprising the step of: e) if the reproduction of said specific disc is completed, then successively reproducing a next one of said plurality of discs (Fig. 12).

**Consider claim 18**, Hashimoto and Kim teach a method for reproducing an optical disc having a plurality of titles, comprising: a) identifying a type of a specific optical disc located at a position readable by an optical pickup when an all disc repeat play mode is set in a multi-disc changer under the condition that a plurality of optical discs including the specific optical disc are loaded in said multi-disc changer, said changer being adapted to wait at a menu picture before or after DVD reproduction in a general play mode ([0070] of Hashimoto); b) if the identified optical disc type corresponds to a DVD, forcibly reproducing one of a plurality of titles recorded on said DVD on the basis of navigation information stored in a predetermined area of said DVD said navigation information including playback times for each of said titles, the one of said titles forcibly reproduced selected based on a corresponding one of the playback times stored in said predetermination of the playback times stored in said predetermined area of the DVD ([0008] and [0106] of Hashimoto, the data group that has the longest data length in a DVD is forcibly reproduced and the longest data length

in a DVD corresponding to the story portion which has the longest playback times in a DVD); c) terminating the reproduction of said DVD by force if the title reproduction is completed (Fig. 12); and d) rotating a multi-tray in order for the disc seated in a next slot to be located at said position readable by said optical pickup ([0074] of Hashimoto).

**Consider claim 19**, Hashimoto teaches the method, wherein said forcible reproduction and termination are performed by omitting the operation of waiting at said menu picture before or after the DVD reproduction ([0073])

**Consider claim 20**, Hashimoto teaches the method, wherein said step b) comprises the step of selecting and forcibly reproducing a title with a longest playback time among said titles recorded on said DVD (Fig. 18 and [0106] the longest data length in a DVD corresponding to the story portion which has the longest playback times in a DVD).

### ***Conclusion***

3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the



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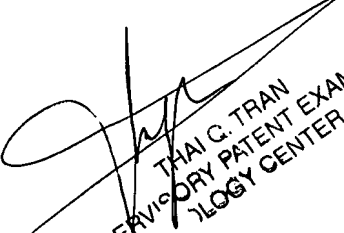
shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tat Chi Chio whose telephone number is (571) 272-9563. The examiner can normally be reached on Monday - Thursday 8:30 AM-6:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Tran can be reached on (571)-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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